Week 8: Simulated Attack & Cloud Incident Response

Name- Samruddhi Dattu Nikam

PRN- 2124UCSF2019

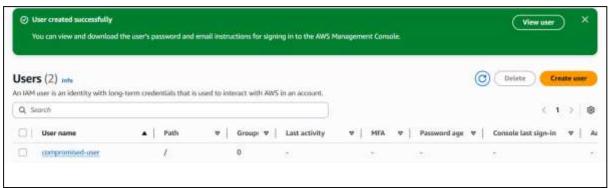
Email-samruddhi.nikam_24ucs@sanjivani.edu.in

Task- 1) Simulate a compromised account scenario.

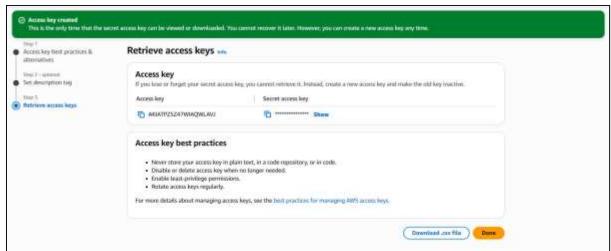
- 2) Respond & secure the account.
- 3) Document the incident response steps.

Task 1- Simulate a Compromised Account.

- 1) Log in to AWS Console. Go to https://aws.amazon.com, sign in to the AWS Management Console.
- 2) Create a test IAM user named **compromised-user** with basic permissions (e.g., Amazon S3 read access).



3) Generate **Access Keys** for the user.



4) Share these keys intentionally with a test machine/script that attempts unauthorized AWS CLI actions (e.g., trying to delete S3 objects without permission).

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5) Monitor AWS CloudTrail and CloudWatch to detect unusual activity from the user account.



Task 2- Respond to the Incident.

1) Identify the Source: Go to CloudTrail \rightarrow Event History. Filter by compromised-user and check the activity timeline.

2) Secure the Account: Deactivate the compromised Access Keys: aws iam update-access-key --access-key-id <ACCESS_KEY> --status Inactive --user-name compromised-user

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3) Restrict Permissions: Detach all policies from the user. Remove from any IAM group.

4) Enable MFA (Multi-Factor Authentication) on the account.



Task 3- Document the Incident Response Steps.

Incident Summary:

- Incident Type: Simulated account compromise.
- **Impact**: Unauthorized S3 deletion attempt blocked.
- **Detection Method**: AWS CloudTrail & CloudWatch alerts.
- Response Actions: Access keys deactivated, permissions removed, MFA enabled.